

MANUFACTURE OF SOLID ELECTROLYTIC FUEL CELL

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Abstract of JP 4322061 (A)

PURPOSE: To simplify manufacturing process by injecting a slurry including zirconia to which a stabilizer is added, onto an air electrode mold, so as to make a complex mold that has an electrolytic mold on the air electrode mold.

CONSTITUTION: After a slurry including metal oxide into a frame 4 having water supply ability so as to form an air electrode mold 5, a slurry including zirconia to which a stabilizer is added, is injected onto the air electrode mold 5, so as to form an electrolytic mold 6, which is dried and the frame 4 is thus removed, which is then baked and a solid electrolytic-air electrode complex having a solid electrolytic film 7 on the inside as well as an air electrode 8 on the outside, is formed.; Since the solid electrolytic film and the air electrode are integrated with each other, and since the thickness is controlled at a fixed value, high performance of a solid electrolytic fuel cell is achieved, and since a fuel electrode mold 5 and the electrolytic mold 6 are formed by injecting the slurry into the frame 4, the manufacturing process can thus be simplified.



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